<u>PATENT</u>

Application No.: 10/693,318 Attorney Docket: 0001.13

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In the claims:

1. (Cancelled)

(Currently amended) An apparatus for producing acrosolized medicament,
 the apparatus comprising:

a reservoir containing a powder medicament to be aerosol zed, the powder medicament comprising a protein or polypeptide; and

a chamber comprising <u>first and second air inlets are inlet and a mouthpiece</u>, wherein the <u>first and second air inlets are inlet is</u> oriented so that gas may flow in a vertical flow path in the chamber and may flow out of the chamber through the mouthpiece and wherein the flow of gas aerosolizes the powder medicament,

wherein at least 40 percent by weight of the powder medi ament is suspended by the gas in the chamber for delivery through the mouthpiece.

- 3. (Previously presented) An apparatus according to claim 2 wherein the chamber volume is from 100 ml to 750 ml.
- 4. (Previously presented) An apparatus according to claim 2 further comprising a source of compressed gas, wherein the compressed gas may be released from the source of compressed gas to cause the flow of gas to acrosolize the medicament
- 5. (Previously presented) An apparatus according to claim? wherein the chamber is adapted contain the aerosolized medicament for subsequent delivery to a patient during a patient's inhalation.
- 6. (Previously presented) An apparatus according to claim ? wherein the chamber is cylindrical.
- 7. (Previously presented) An apparatus according to claim? wherein the aerosolizes medicament comprises small particles of medicament, the particles being sized to be deliverable to the alveolar regions of the lungs of a patient.

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- 8. (Previously presented) An apparatus according to claim 7 wherein the particles are predominantly 1 to 5 micrometers in diameter.
- 9. (Previously presented) An apparatus according to claim 2 wherein at least 55 percent by weight of the powder medicament is suspended by the gas in the chamber for delivery through the mouthpiece.
- 10. (Previously presented) An apparatus according to claim 2 wherein at least 70 percent by weight of the powder medicament is suspended by the gas in the chamber for delivery through the mouthpiece.
- 11. (Currently amended) An apparatus for producing aerosoli æd medicament, the apparatus comprising:

a reservoir containing a powder medicament to be aerosolized, the powder medicament comprising a protein or polypeptide; and

a chamber comprising <u>first</u> and <u>second air inlets</u> an <u>inlet</u> and a mouthpiece, wherein the <u>first</u> and <u>second air inlets</u> are <u>inlet</u> is oriented so that gas may flow in a vertical flow path in the chamber and may flow out of the chamber through the mouthpiece and wherein the flow of gas acrosolizes the powder medicament,

wherein the volume of the aerosolized medicament is from 9.24 percent to 21.5 percent of the volume of the chamber.

- 12. (Previously presented) An apparatus according to claim 11 wherein the chamber volume is from 100 ml to 750 ml.
- 13. (Previously presented) An apparatus according to claim 11 further comprising a source of compressed gas, wherein the compressed gas may be released from the source of compressed gas to cause the flow of gas to aerosolize the medicamen:
- 14. (Previously presented) An apparatus according to claim 11 wherein the chamber is adapted contain the aerosolized medicament for subsequent deliver to a patient during a patient's inhalation.

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- 15. (Previously presented) An apparatus according to claim 11 wherein the chamber is cylindrical.
- 16. (Previously presented) An apparatus according to claim 1: wherein the aerosolizes medicament comprises small particles of medicament, the particles being sized to be deliverable to the alveolar regions of the lungs of a patient.
- 17. (Previously presented) An apparatus according to claim 16 wherein the particles are predominantly 1 to 5 micrometers in diameter.
- 18. (Previously presented) An apparatus according to claim 11 wherein at least 40 percent by weight of the powder medicament is suspended by the gas in the chamber for delivery through the mouthpiece.
- 19. (Previously presented) An apparatus according to claim 11 wherein at least 70 percent by weight of the powder medicament is suspended by the gas in the chamber for delivery through the mouthpiece.
- 20. (New) An apparatus as in claim 2 wherein at least one of the inlets is oriented tangentially in the chamber.
- 21. (New) An apparatus as in claim 2 wherein one of the inlets is not oriented tangentially in the chamber.
- 22. (New) An apparatus as in claim 2 wherein the mouthpie e is oriented tangentially in the chamber.
- 23. (New) An apparatus as in claim 11 wherein at least one of the inlets is oriented tangentially in the chamber.
- 24. (New) An apparatus as in claim 11 wherein one of the ir lets is not oriented tangentially in the chamber.

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25. (New) An apparatus as in claim 11 wherein the mouthpiece is oriented tangentially in the chamber.